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This catalogue merely supplements; it does not supersede the catalogue of 1902. With few exceptions, the books recommended in the latter are still as valuable as when first listed.

The large majority of the books in both catalogues are suitable for the teacher alone. Unless he constantly extends his knowledge and keeps it up to date, his work cannot be effective; but, in making selections for the library, the necessities of the pupils should be provided for first.

When in doubt as to the character of any of the books recommended, School Boards and Teachers should communicate with the publisher or his Canadian Agent. In some cases, publishers are willing to send books on approbation, and in all cases they are willing to supply full particulars. (*See pp. 5-6, Catalogue of 1902.*)

The prices given within are not guaranteed: they are sometimes net, sometimes subject to discount, and occasionally only approximate.

ENGLISH

DICTIONARIES, ETC.

NOTE—See pp. 7-9, Catalogue of 1902.

Gage's Students' Comprehensive Dictionary. Etymological, Explanatory, and Pronouncing. With Appendices, including Literary, Scientific and Historical Names; Words and Phrases from the Greek, Latin and Modern Languages; Glossary of Scots Words and Phrases, etc., etc. Fully illustrated. Cloth, $1.00. W. J. Gage & Co.

Chambers's Twentieth Century Dictionary of the English Language. Pronouncing, Explanatory, Etymological, with Compound Phrases, Technical Terms in use in the Arts and Sciences, Colloquialisms. Full appendices. Fully illustrated. Cloth, $1.00. W. J. Gage & Co.

Concise Imperial Dictionary. Cloth, $1.00; half morocco, $2.00. Blackie & Son. Copp, Clark Co.

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Students' English Dictionary. Literary, Scientific, Etymological, Pronouncing. New edition, revised and augmented. Fully illustrated. Cloth, $2.25; half morocco, $4.00. Blackie & Son. Copp, Clark Co.

People's Edition of Chambers Etymological Dictionary. 35c. Morang & Co.

This is the former $1.25 edition improved. The book is of convenient size for students, having been prepared on especially thin paper.

Standard Dictionary of the English Language. New and enlarged edition with additions since made which bring it down to January, 1905. One and two volumes; different styles of binding, $12.00 to $31.00. Instalment terms of payment. Funk & Wagnall's Co.

With the exception of **Murray's English Dictionary**, this edition of the Standard contains more vocabulary terms than any other dictionary of the English language. It includes the terms which have recently become part of the common speech through the advances in science, etc. The subscription edition includes a Cyclopedia, many colored maps, and in the appendix there are numerous entries, which have been brought down to the year 1905. Many illustrations have been added.

Supplement to the Standard Dictionary, 1904. Cloth, $3.00; half Russian, $4.00; full Russian, $5.00; full morocco, $6.00.

Contains additions to the edition of 1894: proper names, glossary for foreign words, phrases, etc.; faulty diction; formation of the plurals of nouns; pronouncing vocabulary of Bible proper names; and other departments.

Webster's International Dictionary. Recently enlarged edition. In different bindings at prices varying from $10.00 to $18.00. G. & C. Merriam Co., Springfield, Mass., U.S.A.

The appendix contains, besides other features, a completely revised Gazetteer of the World and Biographical Dictionary. Communications should be addressed to the publishers, but the book will be sent from Toronto.

The Encyclopedia Americana. In 16 vols. Half morocco, marble edges. $8.00 a vol. The latest encyclopedia, produced under the editorial supervision of *The Scientific American*, 258-260 Fifth Ave., New York. 110 Temple Building, Montreal.

A very valuable work, fully up-to-date in every department. One of the larger encyclopedias. See note under **Chambers' Encyclopedia**, p. 7, Catalogue of 1902.

Connectives of English Speech. By James C. Fernald, Editor of the **Students' Standard Dictionary.** $1.50. Funk & Wagnalls Co.

Gives in concise form, information about the the correct use of Prepositions, Conjunctions, Conjunctive Pronouns and Adverbs. Contains numerous quotations sustaining the decisions as to correct or incorrect usage.

Index and Epitome: Last Volume of the Dictionary of National Biography. $6.25. Macmillan Co. Smith, Elder & Co.

The Dictionary is beyond the reach of most High Schools, but the Index and Epitome is very valuable in itself. See p. 8 of Catalogue of 1902.

What Great Men have said of Great Men. A dictionary of quotations. By William Wale. 7s. 6d. Swan, Sonnenschein & Co.

Dictionary of Contemporary Quotations. (English). By Helen Swan. With author's index. 7s. 6d. Swan, Sonnenschein & Co.

A useful supplementary volume to the Dictionary of Quotations.

A History of English Critical Terms. By J. W. Bray. $1.00. Heath & Co.

Deals with the terms used in literary criticism and the discussion of Art, with representative quotations.

Famous Sayings and their Authors. A collection of historical sayings in English, French, German, Greek, Italian and Latin. By Edward Latham. 7s. 6d. Swan, Sonnenschein & Co.

Dictionary of Historical Allusions. By Thomas Benfield Harbottle. 7s 6d. Swan, Sonnenschein & Co.

Dictionary of Battles, from the earliest date to the present time. By Thomas Benfield Harbottle. 7s. 6d. Swan, Sonnenschein & Co.

Scientific American Reference Book. Compiled by A. A. Hopkins and A. R. Bonds. $1.50. Scientific American Office.

Contains much information not readily found in any available reference or text book.

Commercial Gazetteer of the World. By William Melvin. With maps, $2.00. T. C. and E. C. Jack. Morang & Co.

A very cheap and convenient gazetteer.

Traditionary Games of England, Scotland and Ireland. Collected and annotated by Alice Bertha Gomme. 2 vols. 25s. David Nutt.

Contains tunes, hymns and methods of playing according to the variants extant and recorded in different parts of the Kingdom.

Faiths and Folklore. By W. Carew Hazlitt. 2 vols. 21s. Reeves & Turner, 1905.

A dictionary of national beliefs, superstitions and popular customs, past and current, with their classical and foreign analogues described and illustrated, being a new edition of **The Popular Antiquities of Great Britain,** largely extended, corrected, brought down to the present date and alphabetically arranged.

PHILOLOGY, ETC.

Note—*See pp. 9-17, Catalogue of 1902.*

The Making of English. By Henry Bradley. $1.00. Macmillan Co. Morang & Co.

A history of the causes producing the excellences and defects of modern English as an instrument of expression.

Last Essays on Language, Folklore and Other Subjects. By Max Muller. 2 vols. 10s. Longmans, Green & Co.

Handbook of Modern English Metre. By Mayor. 50c. Cambridge University Press.

The Standard of Pronunciation in English. By Prof. Lomsbury. $1.50. Harper Bros.

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Americanisms and Briticisms. With other essays. By Brander Matthews. $1.00 Harper Bros.

Subjects: Americanisms and Briticisms, American Spelling, The Literary Independence of the United States, The Centenary of Fenimore Coopor, Ignorance and Insularity, The Whole Duty of Critics, Three American Essayists, Of Mark Twain's Best Story, Of a Novel of M. Zola's, Of Women's Novels, Of Two Latter-day Humorists.

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Structure of the English Sentence. By L. G. KIMBALL. 75c. American Book Co.

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Freshman English and Theme-correcting in Harvard College. By COPELAND and RIDEOUT. $1.00. Silver, Burdett & Co.

Suggestive in connection with the criticism of themes.

Elementary English Composition. By SCOTT and DENNEY. $1.00. Allyn & Bacon.

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The Essentials of Composition and Rhetoric. By A. H. ESPENSHADE. $1.00. Heath & Co.

Composition and Rhetoric for Schools. By HERRICK and DAMON. $1.00. Scott, Foresman & Co.

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A novel way of dealing with the subject on the "Models" plan. This little work would prove suggestive to the Upper School teacher in dealing with prose literature.

The Essentials of Prose Composition. By J. M. HART. $1.00. Hinds, Noble & Eldridge, Philadelphia.

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The Moral System of Shakespeare. By RICHARD G. MOULTON. $1.50. Macmillan Co. Morang & Co.

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Shakespeare. By WILLIAM H. FLEMING. Series 1-4. $1.00 each. Doubleday, Page & Co. 1904.

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The Masterpieces of English Literature. By STEPHEN GWYN. $1.10. Macmillan Co.

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Literature of the World (Russian, French, Japanese, Spanish, etc.) Edited by Gosse. 11 Vols. $1.50 a vol. Others in preparation. Appleton & Co. Morang & Co.

History of Criticism and Literary Taste in Europe. From the earliest texts to the present day. By George Saintsbury. 3 Vols. 60s. Blackwood & Sons.

The Principles of Criticism. By W. B. Worsfold. George Allen.

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The Library of Literary Criticism. Editor Charles Wells Moulton. $5.00 per vol. The Moulton Pub. Co., Buffalo and New York.

Essays on Great Writers. By H. D. Sedgwick (Montague, Macaulay, Lockhart's "Life of Scott," "Don Quixote," etc.) $1.50. Houghton, Mifflin, & Co.

Literary Friends and Acquaintance. By W. D. Howells. $2.50. Harper & Bros.

My Literary Passions. Essays. By W. D. Howells. $1.50. Harper & Bros.

SUPPLEMENTARY READING.

As stated on p. 16 of the Catalogue of 1902, many cheap series are available for class literature in the lower Forms and for Supplementary Reading in all Forms. The list of Publishers of 1902 (p. 17) is still trustworthy; sample copies of their publications may usually be obtained.

The publications now most used in the schools are those issued by the following firms:—

American Book Co. (Gateway Series), A. & C. Black (Scott's Works), William Briggs (agent for various series), Cassell & Co. (National Library, Handy Classics), Donoghue Bros. (Aetna Series), David Douglas (John Burroughs and William Winter), Educational Publishing Co. (Ten Cent English Classics), Houghton, Mifflin & Co. (Riverside Series, Morang & Co., agents), G. M. Lupton Publishing Co. (various series), Macmillan Co. (Pocket Series, Temple Classics—Morang & Co., agents), Mershon & Co., Morang & Co. (Literature Series), Walter Scott (Canterbury Poets), Silver, Burdett & Co., Thos. Whittaker (various series).

HISTORY.

Note.—*See pp. 19-29 Catalogue of 1902.*

BRITISH.

Introduction to English History. By Gardiner & Mullinger. 7s. 6d., Kegan, Paul & Co.

An indispensable guide.

A Brief Survey of British History. By Warner. 50c. Blackie & Son.

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A History of England. By Charles Oman. $1.50. Copp, Clark Co. 5s. Edward Arnold.

A Short History of England. By Prof. Edward P. Cheyney. $1.50. Athenæum Press. Ginn & Co.

One of the best elementary Histories. Fair, and contains the minimum of facts.

English History from Original Sources. 1660-1771. By J. N. Figgis. 75c. A. & C. Black.

Select Documents of English Constitutional History. By G. B. Adams and H. Morse Stephens. $2.25. Macmillan Co.

Statutes and Constitutional Documents (The reigns of Elizabeth and James I.) By G. W. Prothero. $2.60. Clarendon Press.

Side Lights on English History. Being extracts from Letters, Papers, and Diaries of the past three centuries, with 83 portraits and other illustrations. By E. F. Henderson. 21s. Bell & Sons.

English History Illustrated from Original Sources. By WARNER. A. & C. Black. Each 75c. Vol. I. 1215-1307, Vol. II. 1307-1399. Vol. III. 1399-1485. Vol. IV. 1558-1603. Vol. V. 1660-1715. Other volumes to follow.

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History of the Peninsular War. By C. W. OMAN. 2 vols. 28s. Henry Frowde.

The History of England in the Eighteenth Century. By W. H. LECKY. 7 vols. $7.00. Appleton & Co. Morang & Co.

An invaluable work. A cheap edition. See p. 20, Catalogue of 1902.

The English Church during the Sixteenth Century. J. GAIRDNER. $2. Macmillan Co

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English Monastic Life. By DOM GASQUET. 7s. 6d. Methuen & Co.

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The Growth of Empire. A Handbook to the History of Greater Britain. $1.00. By A. W. JOSE. Angus & Robertson.

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Accurate and well arranged.

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The Literature of American History. A Bibliographical Guide. Edited for the American Library Association by J. N. Larned. Houghton, Mifflin & Co.

Though inadequate, still the most comprehensive guide we possess to the whole field.

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Europe in the Middle Ages. By Professors Thatcher and Schwill, (Chicago). $2.00. Scribner's Sons.

This a College work, but the same Authors and Publishers have issued a Short History of Mediæval Europe for High School use. $1.25.

The Holy Roman Empire. By James Bryce. $1. Macmillan Co.

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Love Thrives in War (The War of 1812). By MARY CATHERINE CROWLEY.

BIOGRAPHY.

The following is a selected list suitabl for Supplementary Reading in History *See p. 29, Catalogue of 1902.*

Champlain, The Founder of New France. By EDWIN ASA DIX. $1.00. Appleton & Co. Morang & Co.

John and Sebastian Cabot, and the Discovery of America (Builders of Greater Britain). By G. R. BEAZLEY. 5s. Unwin.

Life of John Colborne (Field-Marshal Seaton). Compiled from his Letters. By G. C. MOORE-SMITH. 16s. John Murray.

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Little Biographies. Cloth, 3s. 6d. Methuen & Co.

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Napoleon. The first phase; some chapters on the boyhood and youth of Bonaparte, 1769-1793. By O. BROWNING. John Lane, 1905. *See p. 29, Catalogue of 1902.*

Life of Napoleon the First. By J. H. ROSE. 2 vols. 10s. Bell & Sons.

The best recent work in English on Napoleon.

Life of Mazzini. By B. KING. (Temple Biographies.) 4s. 6d. Dent.

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GEOGRAPHY.

Note—*See pp. 26-27 and 40-41, Catalogue of 1902.*

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Handbook of Climatology. Part I. By Dr. Julius Haun. $3.00. Macmillan Co.

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Long-range Weather Forecasts. Bulletin No. 35, U.S. Department of Agriculture Weather Bureau, Washington, D.C. (Free).

Weather Folk-lore and Local Weather Signs. Bulletin No. 33, U.S. Department of Agriculture Weather Bureau. 35c.

Contains a useful introduction of 46 pp., dealing with the general subject, and followed by a statement of local weather signs in different parts of the United States. Suggestive.

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Astronomy for Everybody. A popular exposition of the Science of the Skies. Prof. S. Newcomb. $2.00. McClure, Phillips & Co.

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A good readable text book, of reasonable size.

Volcanoes of North America. By I. C. Russell. $4.00. Macmillan Co.

An attractive and interesting book. Russell's other interestingly written works (*see p. 40, Catalogue of 1902*) have one rather serious fault for Canadian students. He is narrow in his views as to the Continent, and apparently knows little or nothing of Canada. His **Glaciers**, for instance, omits our splendid examples and lays stress on insignificant ice-sheets in the North-Western States.

Geology. By Prof. Thomas C. Chamberlin and Rollin D. Salisbury, of the University of Chicago. Vol. I. Geological Processes and their Results. $4.00. Vol. II. Earth History. (In preparation).

Probably the best work on the physical side of geology. The method of treatment is very new and interesting and a number of modern theories appear in it. The work is copiously and beautifully illustrated.

Geology Under the Planetesimal Hypothesis of Earth-Origin. By Prof. Fairchild, of Rochester University. 25c. To be obtained from the author.

This pamphlet discusses in detail the planetesimal theory, which most American Geologists now prefer to the nebular theory. The new theory is also dealt with in Le Conte's **Geology** (revised by Prof. Fairchild, Appleton & Co., 1903) and in Chamberlin and Salisbury's **Geology**.

Text Book of Palæontology. By Karl A. Von Tittel. Translated by Charles E. Eastman. 2 vols. 35s. Macmillan Co.

A good work of reference for a large library.

The Boy Mineral Collectors. By Jay G. Kelly, M.E. $1.25. William Briggs.

A story in which mineralogy is taken up without the use of technical terms. Contains a good deal of interesting and valuable information.

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The Heart of Japan. Glimpses of Life and Nature far from the traveller's track in the Land of the Rising Sun. By CLARENCE LUDLOW BROWNELL. 6s. Methuen & Co. $1.50. McClure, Phillips & Co., 1902.

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History of the Expedition under the command of Captains Lewis and Clark to the sources of the Missouri, across the Rocky Mountains down the Columbia River to the Pacific in 1804-6. 3 vols. $3.00. Morang & Co.

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East London. By Walter Besant, M. A., F.S.A. 7s. 6d. Chatto & Windus, 1901.

MATHEMATICS.

Note—*See pp. 30-32, Catalogue of 1902.*

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The Number System of Algebra. By Fine. $1.00. Heath & Co.

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Elementary Plane Geometry. By McMahon. American Book Co.

Rational Geometry. By Halsted. $1.75. Wiley & Sons, 1904.

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Elementary Geometry, Plane and Solid. By Holgate. 6s. Macmillan Co.

The following text books are intended by their authors to meet the reforms demanded in methods of geometrical teaching:

A School Geometry. By Hall and Stevens. 4s. 6d. Macmillan Co., 1903.

Plane Geometry, Practical and Theoretical. By J. S. Mackay. Chambers, 1904.

Elementary Geometry. By Baker and Bourne. 4s. 6d. George Bell & Sons.

Elements of Geometry. By Lachlan and Fletcher. 2s. 6d. Edward Arnold.

Elementary Geometry, Practical and Theoretical. By Godfrey and Siddons. $1.00. Cambridge University Press.

Experimental and Theoretical Course of Geometry. By Warren. Clarendon Press.

A New Geometry for Schools. By Barnard and Child. 4s. 6d. Macmillan Co., 1903.

Theoretical Geometry for Beginners. By Allcock. 4 parts. 1s. 6d. each. Macmillan Co.

The following consider the fundamental assumptions of Geometry:

The Foundations of Geometry. By Hilbert, translated by Townsend. $1.00. Open Court Publishing Co.

The French translation from the German is listed on p. 31 of the catalogue of 1902.

An Essay on the Foundations of Geometry. By Bertrand Russell. 7s. 6d. Cambridge University Press, 1897.

TRIGONOMETRY.

A New Trigonometry for Schools. By Borchardt and Perrot. 4s. 6d., or in two parts, 2s. 6d. each. George Bell & Sons, 1904.

A Treatise on Plane Trigonometry. By Hobson. Cambridge University Press.

Elementary Trigonometry. By Mayo. 3s. 6d. Longmans, Green & Co. 1904.

PROBLEMS.

Mathematical Problem Papers. By Rudford. $1.50. Macmillan Co.

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MISCELLANEOUS.

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A Manual of Practical Mathematics. By CASTLE. 6s. Macmillan Co.

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The Mathematical Gazette (6 numbers each year). George Bell & Sons.

The Teaching of Elementary Mathematics (Report of the Committee of the Mathematical Association). 6d. George Bell & Sons.

A report which has led to many of the recen changes in mathematical courses.

SCIENCE.

NOTE.—*See pp. 35-39, Catalogue of 1902.*

GENERAL PHYSICS.

The Becquerel Rays and the Properties of Radium. By Hon. STRUTT. $2.50. Edward Arnold.

Contains a clear, simple, and accurate account of the phenomena of radio-activity, without the use of mathematical method.

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Radio-activity. By E. RUTHERFORD. $3.00. Cambridge University Press.

Contains a complete account of our present knowledge of the subject of Radio-activity. Technical in character.

Radio-activity. An Elementary Treatise. By F. SODDY. $2.00. Electrician Printing and Publishing Co.

Gives a connected account of the main arguments and the chief experimental data by which the results have been achieved in Radio-activity,

Gases of the Atmosphere. By WM. RAMSAY. $2.00. Macmillan Co.

A history of the discovery of the better known constituents of the atmosphere, including also helium, argon, neon, krypton, and xenon.

Conduction of Electricity. By J. J. THOMSON. $4.00. Cambridge University Press.

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The Elements of Physics. By PROFESSORS EDWARD L. NICHOLS and WILLIAM S. FRANKLIN. $1.50 a vol. Macmillan & Co.

A college text-book in three volumes, the first of which treats of Mechanics and Heat; the second, of Electricity and Magnetism; and the third, of Light and Sound.

ELECTRICITY AND MAGNETISM.

Signaling Through Space Without Wires. By OLIVER J. LODGE. $1.50. Electrician Printing and Publishing Co.

Notes (revised and enlarged) of a lecture delivered by Sir Oliver J. Lodge, before the Royal Institution of Great Britain in 1894.

Magnetism and Electricity for Beginners. By H. E. HADLEY. 60c. Macmillan Co.

Elementary and largely experimental. Contains many examples of the use of lines of force in explaining magnetic and electric phenomena.

Electricity and Magnetism. By R. Y. GLAZEBROOK. $2.00. Cambridge University Press.

A simple treatment of the elementary laws on which the science of electricity and magnetism is based. The book is well illustrated with experiments which may be made with apparatus of an inexpensive choracter.

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LIGHT.

Practical Exercises in Light. By CLAY. 60c. Macmillan Co.

A series of simple but highly instructive experiments on light. A most useful little volume to teachers of junior students.

Light Waves and Their Uses. By MICHOLSON. $2.10. University of Chicago Press.

A series of eight lectures on Light, delivered in 1899, at the Lowell Institute. Contains many examples of the application of interference methods to measurements of lengths and angles.

Light. By ED. EDSER. $1.50. Macmillan Co.

Aims at giving an accurate and comprehensive knowledge of geometrical and physical optics. The mathematical treatment is simple, and the results of recent investigations are described in connection with important laws which they elucidate. Suitable for a college course on Light, or for a High School teacher's own use.

HEAT.

Heat for Advanced Students. By ED. EDSER. $1.25. Macmillan Co.

A comprehensive account of the science of Heat in both its theoretical and experimental aspects, without the use of higher mathematics. Intended for students who already possess an elementary knowledge of fundamental physical principles.

Mechanics; Molecular Physics and Heat (1903). By MILLIKEN. $1.50. Ginn & Co.

Neither a Laboratory manual in the ordinary sense of the term, nor yet simply a class-room text. Intended to take the place of both, and represents the first portion of a college course in general physics.

SCHOOL TEXTS IN PHYSICS.

The following belong to the Physical Laboratory class. They contain mainly a series of experiments in elementary measurements and physical determinations with little or no theory. Many of the experiments will be found suitable for students in the Lower and Middle schools:

Manual of Experimental Physics. By FRED R. NICHOLS and CHAS. M. TURTON. 90c. Ginn & Co.

Physical Laboratory Manual for Secondary Schools and Colleges. By CHARLES F. ADAMS. 75c. Werner School Book Co.

Elementary Practical Physics. A Laboratory Manual for Beginners. By WILLIAM WATSON. 2s. 6d. Longmans, Green & Co.

Physical Laboratory Manual. By H. N. CHUTE. 60c. Heath & Co.

The following deal with the general principles of physics from the experimental standpoint, and contain also the theory usually found in elementary text books. The subject matter is about equivalent to that required in the course for the Middle school:

Elements of Physics. By HENRY A. ROWLAND and JOSEPH S. AMES. $1. American Book Co.

Student's Manual of Physics. By LEROY C. COOLEY. $1.00. American Book Co.

Principles of Physics. By FRANK M. GILLEY. $1.30. Allyn & Bacon.

Physics for High School Students. By HENRY S. CARHART and HORATIO N. CHUTE. $1.25. Allyn & Bacon.

Elements of Physics. By FERNANDO SANFORD. $1.20. Holt & Co.

Brief Course in Physics. By HEADLEY. $1.25. American Book Co.

The Elements of Physics (Revised edition). By HENRY CREW. $1.10. Macmillan Co.

GENERAL CHEMISTRY.

Principles of Inorganic Chemistry. By W. OSTWALD. Translated by ALEX. FINDLAY. $6.00. Macmillan Co.

The only text book of inorganic chemistry that systematically introduces the modern chemical theories from the beginning, and illustrates their application to the chemistry of the different elements in turn.

The Phase Rule and Its Application. By ALEX. FINDLAY. With an introduction to physical chemistry by SIR WM. RAMSAY. 5s. Longmans, Green & Co.

An account of the method of classifying chemical equilibria and of the experimental methods employed in studying them, with numerous examples. The most recent work on this subject, but of necessity rather hard reading.

School of Chemistry. By W. OSTWALD. Translated by SIR WILLIAM RAMSAY. In two parts. Part 1, Generalities. John Wiley & Sons.

A very clever book, written in the form of a dialogue between a beginner in chemistry and his teacher, in which the boy asks the most natural and difficult questions about his work, and gets good, straight-forward answers simple enough for him to understand.

The New Requirements in Chemistry. For junior marticulation and the junior teachers' examination. By PROF. W. LASH MILLER.

A copy of this has been sent free to every science master in Ontar-o. Others may be obtained for 25c. each on application to the Librarian, University of Toronto.

SCHOOL TEXTS IN CHEMISTRY.

Chemical Lecture Experiments. By BENEDICT. $2.00. Macmillan Co.

A very suggestive book.

Elements of Inorganic Chemistry. By H. C. JONES. $1.25. Morang & Co.

Treats the physical properties with especial fullness.

Descriptive Chemistry. By L. C. Newell. $1.20. Heath & Co.

Contains an illustrated account of the application of chemistry to well-known industries, with a chapter on electro-chemistry. Part II. contains experiments. A Handbook for Teachers (25c.) contains answers to the problems, references to the literature of the subject, and suggestions to teachers.

The Elements of Inorganic Chemistry. New Edition, enlarged and revised. 4s. 6d. Edward Arnold.

Suitable for systematic instruction extending over several years, beginning with experimental work for quite young students and developing into a more advanced text book in the later stages.

Elementary Studies in Chemistry. By Jos. Torrey. $1.25. Holt & Co.

Presents the subject from a modern standpoint. Chemical theory logically developed from experimental facts.

BIOLOGY.

NATURE STUDY.

Modern Nature Study. By Silcox and Stevenson. 75c. Morang & Co.

Part I. gives information about various groups of animals and plants. Part II. outlines studies and gives hints for class work. This book is especially suitable for the Elementary Science of the Lower School.

Nature Study and Life. By Prof. C. F. Hodge. $1.50. Ginn & Co.

A broad, sane treatment of the whole subject, devoted to principles rather than method. One of the very best books on the subject.

The Nature Study Idea. By Prof. L. H. Bailey. $1.00. Doubleday, Page & Co.

A statement of what Nature Study is and of the spirit in which it is to be undertaken, by one of the foremost Nature Study teachers in the United States.

How to teach the Nature Study Course. By John Dearness. 60c. Copp, Clark Co.

Intended for Public Schools, but it contains much material suitable for the High School Teacher of Elementary Science.

SCHOOL TEXTS IN BOTANY.

Plants (including **Plant Relations** and **Plant Structures** two separate works by the same author). By Prof. Coulter. $1.80. Appleton & Co.; Morang & Co.

One of the most suggestive works. Written from the modern standpoint of ecology. An indispensable text.

Lessons with Plants. By Prof. L. H. Bailey. $1.10. Macmillan Co.

A most useful and suggestive book for the new course along Nature Study lines.

Elementary Botany. By Atkinson. $1.25. Holt & Co.

Written from the physiological standpoint. A most valuable guide book.

Elements of Botany. By J. T. Bergen. $1.20. Ginn & Co.

Includes key and flora of Northern and Central States, but is valuable chiefly for its guide to simple laboratory work.

Elementary Plant Physiology. By MacDougall. $1.20. Longmans, Green & Co.

Invaluable for the teacher.

Outlines of Plant Life. By Prof. C. R. Barnes. $1.00. Holt & Co.

Deals with structure, physiology, reproduction and ecology. A modern view of flower and fruit. Fully supplied with laboratory directions.

Plant Life. By the same Author and Publishers. $1.12.

A somewhat more advanced work.

Introduction to Botany. By Prof. W. C. Stevens. $1.50. Heath & Co.

Of the same character as the preceding.

Agricultural Botany. By Prof. Percival. $2.50. Holt & Co.

Illustrations especially good. Probably the best work of its kind. A marvel of lucidity, compactness, and accuracy. An "applied Botany."

The first 308 pages constitute in themselves an elementary general botany, written from the standpoint of the agriculturist; a study of the structure and life processes of plants in which he is vitally interested. This is followed by a classification of plants, the special botany of crops, and the application of botanical principles to the solution of specific agricultural problems. Every teacher should possess this book.

GENERAL BOTANY.

Vegetable Physiology. By Green. A well written work by an original worker. Especially strong on metabolism in plants. $3.00. Churchill.

Plant Physiology. By Pierce. $3.00. Holt & Co.

One of the best recent books on plant physiology. Nearly all phases of the subject are discussed and in a thoroughly modern way. The facts are reliable and the material is well condensed.

Text Book of Plant Physiology. By MacDougal. $3.00. Longmans, Green & Co.

Contains good directions for laboratory work, leading to advanced work. Thoroughly reliable and up to date.

Pfeffer's Physiology of Plants. Translated by A. J. Ewart. Vol. I., $7.00. Vol. II., $4.00. Clarendon Press.

A most comprehensive work on the metabolism and sources of energy in plants. All phases of the life of plants are dealt with thoroughly, and the most recent results of the best plant physiologists are set forth plainly and concisely. Where at all practicable the teacher should have access to this great work of reference.

Plant Physiology. By Ganong. $1.75. Holt & Co.

One of the best laboratory manuals for classes in plant physiology. Contains excellent directions for both teacher and pupil. Valuable for its many suggestions. More elementary than the preceding works.

Natural History of Plants. By KERNER. Translated by Prof. Oliver. 4 vols. 1,000 engravings. $15.00. Holt & Co.

A most comprehensive work on general botany.

The Great World's Farm. By SELINA GAGE. $1.50. Mcmillan Co.

An interesting treatment of plant relationships to soil, climate, and animals.

How to Make School Gardens. By H. O. HEMENWAY. $0. Doubleday, Page & Co.

Written in a simple style. The following are the topics dealt with: How to make a garden; how to prepare and fertilize the land; lessons in garden work—May to September; lessons in greenhouse work, planting seed, potting, shifting, taking cuttings, etc.; root-grafting, budding. Contains also a bibliography.

The Flower Garden. By I. O. BENNETT. $2.00. McClure, Phillips & Co.

A guide to the treatment of indoor gardens, window boxes, household plants, etc., as well as of the usual outdoor plots.

How to Make a Flower Garden. By various Authors. Illustrated. $1.00. Doubleday, Page & Co.

Deals with the following topics: Annuals, perennials, shrubs, trees, vines, bulbs, the water garden, rock gardens and alpine plants, wild gardening, the window garden, hotbeds, cold frames, the small greenhouse, formal gardens, the Japanese garden in America, landscape gardening, the back yard problem, hedges, roses, school gardens, dahlias, plants for special localities and purposes, the time when flowers bloom, cultural instructions.

Plant Diseases. By G. MASSIE. $1.60. Macmillan Co.

The description of every infecting cryptogram is followed by the statement of preventive means. Contains a bibliography.

Our Native Ferns and Their Allies. By L. UNDERWOOD. $1.00. Holt & Co.

With the Wild Flowers. Pussy Willow to Thistledown. By MABEL GOING. $1.00. Baker, Taylor & Co.

A chronicle of flower friends and foes. Gives a great deal of valuable scientific knowledge in an interesting form. A new edition brings it up to date.

Corn Plants. Their Uses and Ways of Life. By F. L. SARGENT. 75c. Houghton, Mifflin & Co.

The Oak. By H. W. WARD. $1.00. Appleton & Co. Morang & Co.

A popular introduction to forest botany. This and the preceding are good examples of Nature studies.

The Teaching Botanist. By GANONG. $1.10. Macmillan Co.

A work of hints and advice to teachers. Most useful.

Catalogue of Canadian Plants. By MACOUN. The Natural History Survey, Ottawa.

SCHOOL TEXTS IN ZOOLOGY.

Animals (including **Animal Life** and **Animal Forms,** separate works by the same authors). By PROFESSORS JORDAN, KELLOGG, and HEATH. $1.80. Appleton & Co., Morang & Co.

Like Coulter's **Plants,** indispensable. Modern in treatment.

Animal Studies. By the same authors and publishers. $1.25.

Also very valuable. **Animals** treats largely of Ecology and Morphology: **Animal Study** presents the salient features of these subjects with classification, economic uses and the history of extinct animals.

Elementary Biology. By E. R. BOYER. 80c. Heath & Co.

Elementary Zoology. By PROFESSOR KELLOGG. $1.20. Holt & Co.

Practical Zoology. By MARSHALL and HURST. $1.60. Smith, Elder & Co.

The three preceding are most excellent laboratory guides.

Zoology. Part I. descriptive; part II. practical. By PROFESSOR COLTON. $1.50. Bound separately, part I. $1.00; part II. 60c. Heath & Co.

In part I. each group is introduced by the consideration of a type dealing with its life as well as with its structure. Then come selected representatives of the chief groups in each of the larger divisions of the animal kingdom. The practical part contains directions for field study, home and laboratory study, and for the dissection of a series of typical animals.

Part I. should be kept from the pupil until his practical work has been done. If a text book is to be used, Part II. is probably the best now available for Upper School work.

A Teacher's Handbook 25c., gives explicit directions for the collection, preservation, and class use of the various forms considered. It gives also full lists of reference for reading, etc. A very valuable book.

Introductory Physiology and Hygiene. By PROF. KNIGHT, of Queen's University, Kingston. 60c. Copp, Clark Co.

Intended for Public Schools, but a good deal of it is well suited for High School necessities. Deals with human physiology and hygiene, which might be taken up incidentally, although not on the programme.

GENERAL ZOOLOGY.

Manual of Zoology. By PARKER and HASWELL. $2.00. Macmillan Co.

An abridgement of the Text Book. *See p. 34, Catalogue of 1902.*

Introduction to Zoology. By DAVENPORT. $1.60. Macmillan Co.

A very useful reference book. Contains keys for the identification of many groups of animals.

General Zoology. By DODGE. $1.50. American Book Co.

A good summary of the main facts in Zoology.

Bird Life. By M. F. CHAPMAN. $1.75. Appleton & Co. Morang & Co.

An excellent introduction to Ornithology.

Birds of Village and Field. By F. MERRIAM. $1.75. Houghton, Mifflin & Co.

A popular treatment.

Color Key to North American Birds. By F. M. CHAPMAN. $2.50. Doubleday, Page & Co.

Contains eight hundred colored drawings, with descriptions. The illustrations are intended to aid the student in identifying birds, by giving, in color, those markings which most quickly catch the eye at a distance. Deals also with their habitats and describes their notes. An untechnical but accurate manual.

Some Canadian Birds. A brief account of some of the common birds of Eastern Canada. By MONTAGUE CHAMBERLAIN. 30c. Copp, Clark Co.

How to Attract the Birds, and other talks about bird neighbors. By M. BLANCHAN. $1.25. Copp, Clark Co.

Nature Biographies. The lives of some everyday butterflies, moths, grasshoppers and flies. By CLARENCE MOORE WEED. $1.25, Copp, Clark Co.

Among the Waterfowl. A popular narrative account of the Water Fowl as found in the Northern and Middle States and Lower Canada, east of the Rocky Mountains. By HERBERT K. JOB. $1.25. Copp, Clark Co.

North American Birds' Eggs. By CHESTER A. REED. $2.50. Doubleday, Page & Co.

A companion volume to the **Color Key to North American Birds**; illustrated with numerous half tones and line engravings. Contains full descriptions of the birds themselves and their habitats. A most interesting and valuable book.

Hand Book of the Birds of Eastern North America. By F. M. CHAPMAN. $3.00. Appleton & Co. Morang & Co.

The standard work for identification of birds of the region.

Wild Birds In City Parks. By H. and A. WALTER. 40c. A. W. Mumford.

An excellent little book for the pupil.
The same publisher's colored photographs of the birds at 2c. each make a good chart or portfolio.

Catalogues of Canadian Birds. By MACOUM. The Natural History Survey, Ottawa.

Birds in Their Relation to Man. By WEED and DEARBORN $2.50. Lippincott & Co.

Birds and Nature. Edited by HIGLEY, Secretary of the Chicago Academy of Sciences. Eighth year. 15c. per copy. $1.50 per year.

Good guide to the study of Nature. Pictures photographed from Nature.

Entomology for Beginners. By PACKARD. $1.50. Holt & Co.

This book was written for students, fruit growers and farmers.

A Guide to The Study of Insects. By COMSTOCK. $3.75. Teachers' edition, $1.50. The Comstock Publishing Co., Ithaca, N.Y.

The best guide to the study of Insects. Should be in every High School Library. Packard also has a volume ($5.00) of the same character.

Economic Entomology. J. B. SMITH. 481 pages. Illustrated. $2.50. Lippincott.

The best school book at date, on injurious insects.

The Entomological Society's Annual Reports. The Department of Agriculture, Toronto.

All these reports are useful. That for 1897 contains a paper on Entomology.

Canadian Entomologist. London, Ont.

The back numbers may be obtained by addressing the editor.

Life Histories of American Insects. By CLARENCE MOORE WEED. $1.50. Macmillan Co.

A brief outline of the lives of a few of the most common and interesting species.

SUPPLEMENTARY READING

The following are especially suitable for supplementary reading. *See also pp. 42-44 Catalogue of 1902.*

The New Nature Library. Nature Books, with many colored plates and photographs from life. 10 vols. WILLIAM BRIGGS.

This series deals with its subjects in a popular way and is highly recommended for reference and for supplementary reading in Biology It has already been purchased by a number of schools and has given much satisfaction. It is the first general reference work to buy for the High School Library.

American Animals, By WITMER STONE and WM. EVERITT CRAM. $3.00.

American Food and Game Fishes. By DAVID STARR JORDAN and BARTON W. EVERMAN. $4.00.

Nature's Garden, By NELTJE BLANCHAN. $3.00.

Bird Neighbors. By NELTJE BLANCHAN. With introduction by JOHN BURROUGHS. $2.25.

Birds that Hunt and are Hunted. By NELTJE BLANCHAN. Introduction by G. O. SHIELDS. $2.25.

Bird Homes. By A. R. DUGMORE. $2.00.

The Butterfly Book. By Dr. W. J. HOLLAND. $3.00.

The Moth Book. By Dr. W. J. HOLLAND. $4.00.

The Insect Book. By Dr. LELAND O. HOWARD. $3.00.

The Mushroom Book. By NINA L. MARSHALL. $5.00.

The Forest. By WHITE. $1.50. The Outlook Company.

A story of the author's experiences and adventures after he had made a thousand mile canoe trip through Northern Michigan and the parts of Canada adjacent. It abounds in forest lore and much genial philosophizing.

Little Masterpieces of Science. Six volumes. 75c. each and $4.50 bound. Doubleday, Page & Co.

The titles of the volumes indicate the scope: **Skies and Earth, The Naturalist, Explorers, Invention and Discovery, Health and Healing, Mind.**

Nature Biographies. By C. M. WEED. $1.25. Doubleday, Page & Co.

This volume is a sort of personal acquaintance with the lives of the more common butterflies, moths, grssshoppers, flies and so on—the sort of details of these insect existences which make the reader want to go out and study them for himself. The illustrations help to give reality and charm to the author's descriptions.

Camp Life in the Woods. W. H. GIBSON. $1.00. Harper Bros.

Eye Spy. Afield with nature among flowers and animate things. By GIBSON. $2.50. Harper Bros.

Happy Hunting Grounds. A tribute to the woods and fields. Illustrated. By GIBSON. $2.50. Harper Bros.

Country Cousins. Short studies in the natural history of the United States. By ERNEST INGERSOLL. $2.00. Harper Bros.

Contains a series of admirable short studies of American animals.

Nature's Calendar. A guide and record for outdoor observations in Natural History. By INGERSOLL. $1.50. Harper Bros.

Wild Life of Orchard and Field. By INGERSOLL. $1.40. Harper Bros.

A much enlarged and newly revised edition of Ingersoll's **Friends Worth Knowing.** The book tells about the little animals that hide themselves in our fields and meadows.

Sharp Eyes. A rambler's calendar of fifty-two weeks among birds, insects and flowers. By INGERSOLL. $2.50. Harper Bros.

NOTE.—All the preceding books by GIBSON and by INGERSOLL are beautifully illustrated.

My Winter Garden. By MAURICE THOMPSON. The Century Co.

Forest Neighbors. Life Stories of Wild Animals. By W. D. HULBERT. McClure, Phillips & Co.

Songs of Nature. Ed. by JOHN BURROUGHS. $1.50. McClure, Phillips & Co.

Essays. By JOHN BURROUGHS. 6 vols. DOUGLAS, $1.25 each. Copp, Clark & Co.

The titles are: **Birds and Poets, Fresh Fields, Pepacton, Wake Robin, Locusts and Wild Honey, Winter Sunshine.** They are delighrtful volumes not, however, suitable for the Lower School.

MISCELLANEOUS.

The New Knowledge. By Prof. R. K. DUNCAN. $2. A. S. Barnes & Co. Hodder & Stanton.

A popular account of the new Physics and Chemistry in their relation to the new theory of matter. Not beyond the capacity of an intelligent Upper School pupil. One of the best books of the kind published.

The Story of Nineteenth Century Science. By H. S. WILLIAMS. $2.50. Harper Bros.

Touches upon all the important branches of medical and physical science and natural phenomena, adding sketches of the men who have made themselves famous by their researches. Interesting and profusely illustrated.

Taxidermy and Zoological Collecting. By HARNADAY. $2.50. Scribner's Sons.

A handbook for the amateur taxidermist, collector, osteologist, museum maker, sportsman and traveller. Has also chapters on collecting and preserving insects by Holland. Well illustrated.

NOTE.—McIlwraith's **Birds of Ontario** contains a brief outline of the art of taxidermy.

Nature and the Camera. How to photograph live blrds and their nests; animals, wild and tame; reptiles, insects, fish and other aquatic forms, flowers, trees, and fungi. By C. RADCLIFFE DUGMORE. $1.25. Copp, Clark Co.

First Book of Forestry. By F. ROTH. 75c. Ginn & Co.

An interesting work beautifully illustrated.

Practical Forestry. By Prof. GIFFORD, of Cornell University. $1.20. Appleton & Co. Morang & Co.

A more advanced work than the preceding. Intended for agricultural students, woodland owners and the general reader.

NOTE.—The Forestry Reports of the Department of Agriculture, Toronto, should also be kept in the library.

A Primer of Forestry. Bulletin 24. Washington, D.C. 25c.

A beautifully illustrated book, full of most useful information.

New Elementary Agriculture. By BESSEY, BURNER and SWEZEY. $1.30. The University Publishing Co.

Agriculture for Beginners. By Profs. BURKETT, STEVENS and HILL. 75c. Ginn & Co.

Very readable and beautifully illustrated.

The Home Aquarium. How to take care of it. A guide to its fishes. By EUGENE SMITH. $1.20. E. P. Dutton & Co.

Ontario Agricultural College Bulletins. Free on application to the Ontario Department of Agriculture, Toronto.

All (Nos. 1 to 145) should be kept in the High School library, but the chief Nos. are classified below in the order of their importance:

I. 142, Outlines of Nature Studies; 134, Hints on making Nature Study Collections in Public and High Schools; 128, The Weeds of Ontario. No teacher can himself afford to be without these numbers.

II. 108, The San Jose Scale; 111, Lucerne or Alfalfa; 112, Foul Brood of Bees; 113, Sugar Beet Experiments in Ontario; 116, The Hessian Fly in Ontario: 118, Yeast and its Household use; 122, Spray Calendar; 124, Nature Study, or Stories in Agriculture; 126, Peas and Peaweevil; Present Condition of San Jose Scale in Ontario.

The Scientific American Cylopedia of Receipts, Notes and Queries. Cloth, $5. Sheep, $6. Half morocco, $6.50. Munn & Co.

Full of things inquiring boys want to know. Contains 15.000 receipts, 734 pp. One of the most used reference books.

Home Mechanics for Amateurs. By HOPKINS. $1.50. 370 pp. Munn & Co.

Deals with hundreds of topics. A handy boys' book.

CLASSICS.

NOTE.—*See pp. 44-49, Catalogue of 1902.*

LATIN GRAMMAR.

A Latin Grammar for Schools and Colleges. By W. G. HALE and C. D. BUCK. $1. Ginn & Co.

Most suggestive and original.

A Latin Grammar for Schools. By A. F. WEST. 90c. Appleton & Co. Morang & Co.

One of the "Shorter Grammars."

New Latin Grammar. By ALLEN and GREENOUGH. Revised by J. B. GREENOUGH, G. L. KITEDGE, A. A. HOWARD and B. L. D'OOGE. $1.20. Ginn & Co.

Complete Latin Grammar. By ALBERT HARKNESS. $1.25. American Book Co.

COMPOSITION.

First Steps in Continuous Latin Prose. By W. C. FLAMSTEAD WALTERS. 2s. Blackie & Sons.

Writing Latin. By J. E. BARSS. Book I., second year work, 50c. Book II., third and fourth year work, 75c. University Publishing Co.

Easy Exercises in Continuous Prose. (Part III. of Macmillan's Latin Course). By W. E. P. PANTIN, M.A. pp. 312. Macmillan Co.

One of the best books for Honor Matriculation. The explanations are both lucid and concise.

Latin Prose Composition. By R. A. LITTLE. 75c. Copp, Clarke Co.

A very useful and suggestive series of notes on Latin prose composition rather than a systematic treatment of the subject. It somewhat resembles the work of Abbott and Seeley's **Latin Prose through English Idiom.** The standard aimed at is that of Honor Matriculation.

Latin Composition. By Prof. D'OOGE. Part I. based on Cæsar, 40c. Parts II. and III. based on Cicero's Manilian Law, Cataline I.-IV. and Archias. 60c. Ginn & Co.

Very useful manuals. Emphasize oral work.

Exercises for Latin Prose. By PERCIVAL FROST. 2s. George Bell & Son.

An excellent book for Livian and Ciceronian prose. The exercises are accompanied by hints at the bottom of the page. Numerous extracts are taken from the Roman Histories of Niebuhr and Arnold.

Latin Composition. By NORTH and HILLARD. $1.25. Rivingtons.

A good drill book. Copious short sentences and classified continuous passages.

Latin Composition. By PEARSON. $1. American Book Co.

Based on Cæsar and Cicero. Very useful.

GREEK GRAMMAR.

Homeric Grammar. By F. E. THOMPSON. Rivingtons.

Very useful and practical.

A School Grammar of Attic Greek. By T. D. GOODELL. $1.50. Appleton & Co., Morang & Co.

One of the best of the Greek Grammars. Much more concise than Goodwin and the type is better.

Greek Grammar. By JNO. THOMPSON. John Murray.

A valuable book. Chiefly Attic, with notes on Homeric forms. A good companion to Goodwin and in many respects more comprehensive.

COMPOSITION.

Greek Composition for Schools. By R. J. BONNER. $1.00. Scott, Foresman & Co.

Exercises based on Anabasis, I-II. Excellent classified vocabularies. Some years ago the author was classical master in one of our Collegiate Institutes.

An Introduction to Greek Prose Composition. By H. PITMAN. 60c. Macmillan Co.

Elementary, but covers fully the ground for Honor Matriculation. Well arranged and well printed. Contains a good introduction and a well graded set of continous prose exercises at the end.

Greek Prose Composition. By PEARSON. 90c. American Book Co.

A neat little volume based on Xenophon, Anab. I–IV. Very useful.

SIGHT READING.

A First Latin Reader. By R. A. A. BERESFORD. 1s. 6d. Blackie & Son.

Ora Maritima. A Latin Story for Beginners. By E. A. SONNENSCHEIN. 2s. Swan, Sonnenschein & Co.

Pro Patria. A Latin Story for Beginners (a sequel to Ora Maritima). By E. A. SONNENSCHEIN. 2s. 6d. Swan, Sonnenchein & Co.

Second Latin Book. By F. J. MILLER and C. H. BENSON. $1.25. Scott, Foresman & Co.

The Messenian Wars. An elementary Greek Reader (compiled from Pausanias). By H. W. AUDEN, Principal, U. C. C. Blackwood & Sons.

Passages for Unseen Translation. By A. M. COOK and E. C. MERCHANT. 3s. 6d. Methuen & Co.

The extracts (400 in all) are taken from the whole range of Greek and Roman Literature. The arrangement is also well graded.

A Parallel of Greek and Latin Syntax. For use in Schools. By C. H. ST. L. RUSSELL. Swan, Sonnenschein & Co.

HISTORY OF LITERATURE, ANTIQUITIES, ETC.

Harvard Lectures on Greek Subjects. By S. H. BUTCHER. Macmillan Co.

Lectures on Classical Subjects. By W. R. HARDIE. $2.25. Macmillan Co.

Lectures and Essays. By HENRY NETTLESHIP. 2 volumes. 15s. Clarendon Press, 1905.

Principally on classical subjects,

The Classical Renaissance. By R. C. JEBB. (Being chap. XVI. in Vol. I. of the Cambridge Modern History.) Cambridge University Press.

Proceedings of the Classical Association of England and Wales 1904. First Regulations. 2s. John Murray.

Greek Art. "Little Books on Art" Series. By H. B. WALTERS. 2s. 6d. Methuen & Co.

Greek Sculpture. Its Spirit and Principles. By EDMUND VON MACH. $4.50. Ginn & Co.

Ancient Athens. By ERNEST A. GARDNER. $5.00. Macmillan Co.

Pompeii, Its Life and Art. By A. MAU. $2.50. Macmillan Co.

Recent Excavations in the Roman Forum. 1898-1904. By E. BURTON BROWN. 3s. 6d. John Murray.

Illustrations of School Classics. Described and arranged by G. F. HILL, of the British Museum. $2.50. Macmillan Co.

Survey of Greek Civilization. By PROFESSOR MAHAFFY. $6.00. Macmillan Co.

Greek Life and Thought. From the age of Alexander to the Roman Conquest. By PROFESSOR MAHAFFY. 12s. 6d. Macmillan Co.

The Greek World Under Roman Survey. By PROFESSOR MAHAFFY. 10s. 6d. Macmillan Co.

The three preceding works by Professor Mahaffy are really a sequel to his **Social Life in Greece.**

The Ancient City. By FUSTEL DE COULANGES. $2.00. Lee & Shepard.

Nouvelles Promenades Archœologiques. 5th edition. By BOISSIER. 3 fr., 50c. Hachette & Co.

Both of the preceding are excellent works. Putman's Sons have them in translations as **Rome and Pompeii,** $2.50, and **The Country of Virgil and Horace,** $2.00. The French edition is to be preferred.

Greek View of Life. By DICKENSON (Cambridge). University Extension series. 2s. 6d. Methuen & Co.

Roman Political Institutions. By PROFESSOR ABBOTT (Chicago). $1.50. Ginn & Co.

Preferable to Greenidge if a choice is to be made.

The Mycenean Age. By TSOUNTAS and MANATT. $6.00. Houghton, Mifflin & Co.

Hannibal. By COL. DODGE. $5.00. Houghton, Mifflin & Co.

Morris's **Hannibal** in **Heroes of the Nations,** is also good. This with Strachan-Davidson's **Cicero** and W. Warde Fowler's **Cæsar** are indispensable for a good School Library.

Studies in Virgil. By PROFESSOR GLOVER (Late of Queen's University). 10s. 6d. Edward Arnold.

Translations of Polybius. By SCHUCHBURG. 2 vols. 24s. Macmillan Co.

A source book. It is well to have contemporary authority for the most important period of school work in Roman History.

A Popular Handbook to the Greek and Roman Antiquities in the British Museum. By G. T. COOK. $3.25. Macmillan Co.

The Life of the Ancient Greeks. By C. B. GULICK. $1.40. Appleton & Co.

Stories in Stone from the Roman Forum. By ISABEL LOVELL. $1.50. Macmillan Co.

EDITIONS OF AUTHORS.

School Iliad, I.-VI. By SEYMOUR. Ginn & Co.

Revised edition. Introduction bright and comprehensive.

Luciani Vera Historia. By JERRAM. Clarendon Press.

Lucian's Charon. By HERTLAND. Pitt Press.

Lucian's Menippus and Timon. By HERTLAND. Pitt Press.

These are the best editions of Lucian for Honor Matriculation.

The Orations of Cicero Against Cataline. By A. S. WILKINS. Macmillan Co.

Valuable for the excellent introduction. The notes are short and pointed.

Horati Flacci Opera. With notes by PAGE, PALMER and WILKINS Macmillan Co.

The best school edition of the complete works of Horace. The **Odes** and **Epodes** are by Page; **Satires** and **Epistles** by Palmer, and the **Ars Pœtica** by Wilkins.

Cicero: Select Orations. By D'OOGE. Benj. H. Sanborn & Co., Boston.

A good edition for school classes. Contains the Four against Catiline, Manilian Law, Pro Archia, and Pro Marcello. Notes very suggestive, particularly on the syntax of the subjunctive. Long quantities marked in the text. Parallels from Sallust for sight translation.

Cicero: Eight Orations. By FORBES. Appleton & Co., Morang & Co.

A handsome edition. Contains the speeches against Catiline.

MODERN LANGUAGES.

NOTE.—*See pp. 49-54 Catalogue of 1902.*

FRENCH

DICTIONARIES AND ENCYCLOPÆDIAS.

Le Nouveau Larousse Illustre. Edited by CLOUDE AUGE. 7 vols. 200 fr. Larousse, Paris.

Both an encyclopædia and a dictionary, in small but clear type, containing more than 7,000 pages, and more than 46,000 engravings, with nearly 500 maps and many colored plates. In size it is second only to the great Larousse (in 18 vols.), which has scarcely any illustrations.

International French-English and English-French Dictionary (Editorial Critic of French Pronunciation, PAUL PASSY; Editorial Critic of English Pronunciation, GEO. HEMPL). $2.00. Hinds, Noble, and Eldredge, New York.

The latest of its kind. The pronunciation is given in the widely-known symbols of the Association Phonetique (those used in the High School French Grammar). In cases of divergence, American pronunciation is preferred to English. The appendix contains French proper names, with their pronunciation, but the names of contemporary persons are few.

HISTORY OF LITERATURE.

Geschichte der Franzoesische Litteratur. Von den aeltesten Zeiten bis zur Gegenwart. H. Suchier and A. Birch-Hirschfeld. 16m. Bibliographisches Institut, Leipzig.

A large volume, bringing history down to the present, richly illustrated with portraits, fac-similes of old manuscripts, and many colored reproductions, the extracts being translated into German.

PHONETICS AND PHONOLOGY.

Precis de Prononciation Francaise. By A. WELTER. 7f. 50c. Rousselot et Laclotte, Paris.

An admirable treatise, designed for practical training, and suitable for self-instruction, by reason of its many engravings. A smaller work, by the same authors, has been published under the title, **Premiers Elements de Prononciation Francaise.**

HISTORY, GEOGRAPHY, NATIONAL LIFE, INSTITUTIONS.

Histoire de France Depuis les Origines Jusqu' a la Revolution. Edited by ERNEST LAVISSE. 8 vols. (5 vols. already published). Each vol., paper, 12f. Hachette et Cie, Paris.

Album Historique. By O. PARMENTIER, under the direction of E. LAVISSE. 3 vols., each 15f. A. Colin et Cie, Paris.

Made up mainly of illustrations, with concise explanatory letterpress, showing the military and domestic life at Court, in the city, and in the country, throughout all Western Europe in the Middle Ages, and down to the Nineteenth Century.

France. By J. E. C. Bodley. 2 vols. 10s. Macmillan Co.

The most complete work on contemporary French life, and a very safe guide.

French and English. By Philip Gilbert Hamerton. 10s. 6d. Macmillan Co.

An admirable comparison by this celebrated art critic and man of letters, who lived many years in France. Remarkably moderate and reasonable, and free from national prejudice.

French Life in Town and Country. "Our European Neighbours" Series. By Hannah Lynch. $1.20. G. P. Putman's Sons.

Uniform in size and plan with the rest of the series on German, Dutch, Swiss, and Russian life by other authors. A very valuable series.

Land und Leute in Frankreich (Part III. of the Notwoerterbuch der franzosischen und deutschen Sprachen). By Cesaire Villatte. Cloth 3m. Langenscheidt, Berlin.

Tu-Seras Agriculteur. By H. Marchand. Boards, 1f. 60. Armand Colin et Cie, Paris.

A book on farm and country life, containing 160 illustrations.

The rest of the series, which was "crowned" by the French Academy, are as follows:—

Tu Seras Prevoyant. By P. Matrat. 112 illust. Boards, 1f. 50.

Tu Seras Ouvriere. By L. C. Desmaisons. 143 illust. Boards 1f. 50.

Tu Seras Citoyen. By E. Ganneron. 182 Illust. Boards, 1f. 50.

Tu Seras Chef de Famille. By G. Nicholas. 182 illust. Boards, 1f. 50.

Tu Seras Soldat. By Emile Lavisse. 200 illust. Boards, 1f. 40.

Carte de France. By Vivian de Saint-Martin. On a scale of 1-1,250,000. Folded in case. 7 fr. Hachette et Cie., Paris.

Carte de France. By le Colonel Niox, on a scale of 1-1,600,000. Mounted on linen and folded. 5 fr. 50. Delagrave, Paris.

Both these maps give France with all its departments indicated in colors.

Plan de Paris. Published in various sizes, and at various prices. This and other wall-maps should be mounted on linen.

Plan des Environs de Paris. Almost as indispensable as the Plan de Paris, and procurable for a few francs.

Guide Books. Among the best guide-books are those of Hachette, in French; and Baedeker, in English; the latter costing 6 marks for "Paris and Environs," and 7 marks for "Northern France," (not including Paris, etc.)

Views of City and Country. Lantern-slides, illustrative of city and country, buildings and landscape, may be had at very moderate prices, and in a variety extending to many thousands of subjects.

Newspapers. French *daily* newspapers cost from 32 fr. a year (delivered in Canada) to 72 fr. One of the most satisfactory weekly journals for everyone is the *Annales politiques et litteraires*, which costs only 7 fr. 50 a year. For school children, *Le Petit Francais illustre*, weekly, costs 7 fr.

Le Petit Parisien. By R. Kron. 2m. 40. Bielefield, Karlsruhe.

A storehouse of information regarding ordinary French life. Adapted by W. Rippmann, and republished by Dent & Co. as **French Daily Life.** 2s. 6d. The companion to it, **German Daily Life,** is also 2s. 6d.

Les Francais en Menage. Illustrations of French Life and Letter-writing. Jetta S. Wolff, 1s. 6d. Edward Arnold.

Useful for supplementary reading, for dictation exercises, or for reading to the class.

Les Francais en Voyage. By the same. Same price.

A decidedly clever and entertaining book, entirely in dialogue, like the last mentioned.

Scenes of Familiar Life. Mrs. J. G. Frazer. 40 cents. Macmillan Co. Copp, Clark Co.

A collection of amusing dialogues, thoroughly French.

French Life in Letters. Mrs. Molesworth. 40c. Macmillan Co.

TEACHING MATERIAL.

Wandbilder. Each picture on paper, linen bound and with eyelets. 4m. 25; on linen, 5m. 50. E. Hoelzels Verlag, Vienna.

These pictures are very widely known. They are full of details of German life, The subjects are as follows: **Die Vier Jahreszeiten** (4 pictures); **Die Bauernhof; Das Gebirge; Der Wald; Die Stadt,** etc. Various books of conversational exercises, based on these subjects, have been prepared in French as well as German.

Wandbilder. Meinholds Bilder fuer den Anschauungsunterricht. C. C. Meinhold und Sohne, Dresden.

Consists of a series of 20 large pictures (27 in. by 37 in.) with fewer details than the foregoing. On paper, each 1m; on linen, 1m. 20.

The Facts of Life. By V. Betis and H. Swan. 80c. Scribner's Sons.

Gives 93 conversations on Home Life, The School, etc.

Class-room Conversations in French. (The same authors and price.) 110 conversations in "the practice of subjective language."

The Elements of French Composition. By J. Home Cameron. 75c. Holt and Co., Edward Arnold.

AUTHORS AND EDITIONS

Many of the great French authors, from the sixteenth century to the nineteenth, can be had in cheap serviceable editions, at from 2 to 4 francs a volume. In certain cases, all the important work of an author is published in a single volume: *e. g.* Rabelais, Montaigne, Malherbe, La Fontaine, Boileau, Racine.

Moliere may be had complete in two or three volumes, or in the admirable one-volume edition of the Clarendon Press, at 5s.

Single plays of Corneille, Racine and Moliere, with very full introductions. authors' prefaces, and copious notes, are issued by several publishers at 1 franc.

New plays of the contemporaneous drama usually cost from 2 to 4 francs, but are often not published until some months after the first representations.

GERMAN.

DICTIONARIES, ETC.

Dictionary of the English and German Languages. By C. F. Grieb. Tenth Edition. Re-arranged, revised and enlarged with special regard to pronunciation and etymology, by A. Schroeer. Vol. I. English and German pp. XXXIV. 1358. 14s. Vol. II. German and English pp. XXII. 1194. 12s. Paul Neff Verlag, Stuttgart. Henry Frowde.

This revision of Grieb's dictionary completed in 1902, is now the best medium sized dictionary of English and German obtainable.

Deutsches Woerterbuch. By Hermann Paul. pp. VII. 576. 10m. Halle a. S., Max Niemeyer, 1897.

An exceedingly useful work. No attempt is made at completeness, but the development of the meaning of words is carefully traced,

Selection of German Idioms. By Myra Taker and F. F. Roget. 3s. 6d. Macmillan Co.

A useful collection.

Note 1.—After **Deutsches Woerterbuch,** by M. Heyne, etc., p. 52 Catalogue of 1902, insert :—Small edition of the above in one volume. 13m.

Note 2.—After **Synonymisches Handwoerterbuch.** Eberhard, etc., p. 52, insert: The sixteenth edition of this standard work has just been completed (1904). It has been thoroughly revised, enlarged and in part re-written.

PHONETICS AND PHONOLOGY.

Deutsches Lesebuch in Lautschrift. By W. Vietor-Teubner, Leipzig. Part I. Primer and First Reader, 2d edition 1904. 3m. Part II. Second Reader. 3m.

The selections, in the latest official spelling and in phonetic transcriptions, are on opposite pages.

Grundzuege der Buehnenaussprache. By Theodore Siebs, second edition. 2m. 50. Ahn, Berlin, 1904.

A valuable aid for the acquiring of a correct pronunciation.

Orthographisches Woerterbuch der Deutschen Sprache. By Konrad Duden. 1m. 65. Bibliographisches Institut, Leipzig.

An excellent reference book.

Amtliches Woerterverzeichnis Fuer die Deutsche Rechtschreibung. Pp. 32. 10 pf. Weidmannsche Buchhandlung, Berlin, 1903.

This is the official list for use in the Prussian offices, with the spelling according to the latest decrees. (June 11, 1903).

Lehrbuch der Deutschen Sprache. By S. W. Spanhoofd. $1.00. Ginn & Co.

The exercises contain a very useful everyday vocabulary with not too much formal grammar. Suitable especially for the Lower School Forms. Will supply plenty of practice in conversation.

HISTORY OF LITERATURE.

A History of German Literature. By J. G. Robertson. $3.50. G. P. Putman's Sons. 10s. 6d. Blackwood & Son.

This is now the most scholarly and complete reference history in English.

Grundzuege der Deutschen Litteraturgeschichte. By G. Klee. 2m.00. Georg Bondi, Berlin.

The best of the short histories.

Note. — After **Geschichte d. d. National Litteratur,** by Kluge, etc., p. 53 of Catalogue of 1902, strike out "This is the best short history."

Geschichte der Deutschen Litteratur. By Max Koch. 80 pf. Sammlung Goeschen, Stuttgart.

Concise, but excellent.

Geschichte der Deutschen Litteratur. By F. Vogt and M. Koch. Bibliographisches Institut, Leipzig.

A fine work by high authorities. Beautifully illustrated.

Geschichte der Deutschen Litteratur. By A. Bartels. 2 vols. 14m. Avenarius, Leipzig.

A good reference work, especially the second volume on 19th century.

History of German Literature. By Moore. Germania Press, Hamilton, N.Y.

In the note appended to **Hauptstroemungen-der lit. d. 19, Jahrhundt,** by G. Brandes, p. 53 of the Catalogue of 1902, for "An English edition is now (1901) being published" read "An English translation is published."

Deutsche Geschichte, Erster Egaenzungsband. By Karl Lamprecht. 8m. R. Gaertner, Berlin.

An inspiring work by a leading living historian. About 175 pp. of this volume treat of modern literature; the remainder, of music, arts and civilization.

Lexikon der Deutschen Nationallitteratur. By A. Stern. Bibliographisches Institut, Leipsig.

Useful reference dictionary of German authors.

Deutsche Litteraturgeschichte Des 19 Jahrhunderts. By Carl Weitbrecht 2 small volumes. 1m. 60. Sammlung Goeschen, Stuttgart.

An excellent short history of German literature of the 19th century.

AUTHORS AND EDITIONS.

Grundriss Der Neueren Deutschen Litteraturgeschichte. By R. M. Myer. 7m. G. Bondi, Berlin.

A complete bibliography of modern German literature, including references to magazines, reviews, etc.

A Handy Bibliographical Guide to the Study of the German Language and Literature. By K. Breul. 2s. 6d. Hachette & Co.

A useful and well arranged bibliography.

A Chronology and Practical Bibliography of Modern German Literature. By S. S. Nollen. $1.00. Scott, Foresman & Co., 1903.

Not so full as Myer's **Grundriss**, but covering a wider period. Accurate and up-to-date. The author has been very successful in his attempt "to indicate briefly the character and value of the works listed."

COMMERCIAL.

Note.—*See pp. 55-57, Catalogue of 1902.*

BOOKKEEPING AND COMMERCIAL LAW.

Municipal Accounting. By F. H. Macpherson, F.C.A. $3.00 The Bookkeeper Publishing Co., Detroit, Mich.

A very comprehensive work, by an experienced accountant. Contains a number of excellent forms for municipal accounting.

Company-Secretary. By W. H. Fox, C.A. $6.50. Gee & Co.

Contains a full description of the duties of the company-secretary, together with an appendix of forms and precedents. Every form that can possibly be required finds a place, and the list comprises the requisites in Formation of Company, Proceedings of Directors, General Meetings, Share Certificates and Notices, Share Warrants to Bearer, Share Register, Transfer of Shares, Debentures, Dividends and Debenture Interest, Stock Exchange Quotations, Books of Account, Office Books, Liquidation and Reconstruction, Notices by Advertisement, Table of Stamp Duties.

Book-Keeping for Company Secretaries. By Lawrence R. Dicksee, F.C.A. $1.50. Gee & Co.

Deals very fully with questions in relation to book-keeping, a knowledge of which is essential to every company-secretary.

The Accountant's and Book-keeper's Vade-Mecum. By G. E. Stuart Whatley. $2.50. Gee & Co.

Consists of a series of concise articles upon capital and revenue expenditure, revenue accounts, deficiency accounts, depreciation, reserve and sinking funds, adjustment of partnership accounts, joint stock companies' accounts, tabular book-keeping, hotel and theatre accounts, and other matters not generally dealt with in existing works on book-keeping, together with useful forms and directions.

Accounting in Theory and Practice. By George Lisle, C.A., F.F.A. $4.75. Wm. Green & Sons, Edinburgh.

Treats not only of book-keeping, balance sheets, and the numerous matters incidental thereto, such as consignments, accounts, reserve funds and depreciation, but also of good-will, insurance, bills of exchange, currency, cost accounts, income tax, etc.; apportionment, trust and executors' accounts, investigations and auditing generally.

Book-keeping for Accountant Students. By Lawrence R. Dicksee, F.C.A. $3.75. Gee & Co.

Deals with the general theory of double-entry book-keeping, the accounts of traders, consignment accounts, department trading accounts, and self-balancing ledgers; of manufacturers' cost accounts, joint stock companies' accounts, the double account system, depreciation., etc. Numerous exercises and examination papers are appended.

Executorship Accounts. Third edition. By O. H. Caldicott, F.C.A. $1.50.

Contains a complete set of trust accounts, forms, etc., with explanatory text.

Goodwill and its Treatment in Accounts By Lawrence R. Dicksee, F.C.A. (With an introductory chapter dealing with the law relating to goodwill, by the late Dr. Stevens). $1.50. Gee & Co.

A concise treatment of the law relating to goodwill, and an exposition of the matters to be taken into consideration in the valuation thereof, together with a full explanation of the correct method of dealing with the item of goodwill in books of accounts,

Executorship Laws and Accounts. By Frederick Whinney, Jr., Barrister-at-law, assisted by A. P. Van Neck, Barrister-at-law. $2.75. Gee & Co.

Contains a complete statement of the executorship law, and has recently been revised and brought up to date. It is divided into eight parts: Preliminary, the Death Duties, the Powers of Executors over Estates, the form of an Administration Judgment and of the accounts to be brought in under it, the Liabilities of Executors in Respect of the Assets, the Application of the Assets, Insolvent Estates, Release of the Executor. An Appendix contains an epitome of a Will, and a set of Executorship Accounts by A. F. Whinney.

Advanced Accounting. By Lawrence R. Dicksee, F.C.A. $6.25. Gee & Co.

In addition to an exhaustive treatment of the subject from an accountant's point of view, an appendix deals with the law relating to accounts, and the requirements of the Courts and of lawyers in connection therewith.

Shareholders and Directors' Manual. By J. D. WARDE. $3.00. The Carswell Co., Toronto.

Contains a compendium of the laws relating to joint stock companies, and information as to the steps to be taken in applying for charters of incorporation and licenses under the Acts of the Dominion of Canada and of the Provinces thereof, together with information respecting the organization and management of such companies, and a number of forms and by-laws suitable for the use thereof.

Digest of Canadian Mercantile Law. By W. H. ANGER, B.A. $1.50.

A digest of the business laws of Canada and Newfoundland. Contains the technical points and main features of both the common and the statute laws, together with the various legal and business documents in general use.

Commercial Law. By W. H. ANGER, B.A., Toronto. 75c. To be obtained from the Author.

A condensation of the **Digest of Canadian Mercantile Law.** Very suitable as a text-book for class work.

Essentials of Commercial Law. By R. E. GALLAGHER. $1.50. Business Educator's Publishing Co., London, Ont.

A revision of the **Business Educator's Commercial Law**, by T. H. Luscombe. Touches on all the principal points of mercantile law, and is designed for students.

Encyclopædia of Accounting, Banking, and Insurance. By the most competent authorities. In six volumes. $5.50 per volume. Wm. Green & Sons, Edinburgh.

By far the most useful work that has ever been prepared for accountants. Handles exclusively all the subjects falling within the scope of mercantile, mining, estate, fiduciary and public accounting, insurance, banking, stockbroking, companies, bankruptcy, investment, investigations, arbitrations, auditing, book-keeping; and in addition to these, such legal, financial, and economic subjects as are useful to accountants.

American Accountants' Manual. Volume 1. By F. BROAKER, C.P.A. $3.00. Broaker & Chapman, New York.

Contains questions and answers set at the first licensing examination far the issue of certificates to certified public accountants, pursuant to New York laws, together with commentaries on balance-sheets, statements of affairs, trading and profit and loss accounts, accountancy and the legal profession, specimen reports, scope of accountancy, literature, and copious index.

The Four Lectures. Delivered in the Institute of Chartered Accountants. $1.50. Gee & Co.

The following are the titles: The Legal Position of Outgoing Partners, by T. M. Stevens, M.A., B.C.L.; Profits Available for Dividend, by L. R. Dicksee, F.C.A.; Companies, by G. W. Knox, B.Sc., F.C.A.; Arbitration, by F. W. Pixley, F.C.A.

Arbitration Redress. By A. FOULKS LYNCH. $2.25.

A digest of the law of arbitration and award.

Assignment Act of Ontario. By R. S. CASSELS. $1.25. The Carswell Company, Toronto.

Includes the Act respecting assignments and preference by insolvent persons, R.S.O., 1897, Chapter 147, with notes under each section of any divisions given at various times.

Antiquity of Book-keeping. By J. W. HEAPS. 40c. Gee & Co.

An historical account.

Joint Stock Company Book-keeping. By DAVID HOSKINS, F.C.A., Toronto, $1.50. To be obtained from the Author.

Contains useful information dealing with the conversion of private undertakings into companies. It gives entries in book-keeping, and shows how the different books are kept.

Cost Accounts of Manufacturers. By EDDIS & TINDALL. $3.00. The Accountancy Book Publishing Co., Toronto.

Shows how to keep manufacturing accounts, both as regards the costs and records of manufacturing, and the commercial accounts relating to the costs and profits of manufactured goods. Contains complete sets of forms for manufacturing accounts of several classes of manufactories.

Errors in Balancing. 50c. Gee & Co.

A concise handbook dealing with the more usual causes of differences in trial balances and the methods of detection.

The Accountants' Journal. A monthly publication. $2.25. Gee & Co.

Contains two or more original articles upon topics of professional interest; a series of specially written paragraphs upon current events; notes upon recent legal decisions; lectures delivered to the various students' societies; and other matters of interest.

The Accountant. A publication issued weekly. $6.35. Gee & Co.

Is the only medium of communication between the members of the Institute of Chartered Accountants in England and Wales, and accountants generally throughout the United Kingdom. Contains original articles correspondence, lectures, and debates on book-keeping (with specimens of accounts), auditing, liquidations, bankruptcies, as well as reports of all decisions as to administration cases, arbitrations, winding-up of joint stock companies, the Bankruptcy Act, mercantile law and partnership—generally a complete record of all matters of interest to the profession.

NOTES.—(1) **Dicksee's Book-keeping for Accountant Students, Childs' Partnership Accounts, Whinney's Executorship Accounts, and Luscombe's Business Educator's Commercial Laws** may be deleted in the Catalogue of 1902.

(2) The Accountancy Book Publishing Co., Limited, 27 Wellington Street East, Toronto, are sole agents in Canada for Accountancy Publications of Gee & Co., London, and Wm. Greene & Sons, Edinburgh.

TYPEWRITING.

Touch Typewriting. (Location Method) By HOBART TODD. $1.00. The Underwood Typewriting Co., New York.

Contains 46 plates of instructions, lessons and exercises, arranged for the Underwood Typewriter.

A Practical Course in Touch Typewriting. By CHARLES E. SMITH. 50c. Isaac Pittman & Sons, New York.

Contains 33 pages of lessons and exercises, put up in single keyboard and double keyboard editions.

MANUAL TRAINING AND DOMESTIC SCIENCE.

NOTE.—*See pp. 58-60, Catalogue of 1902.*

MANUAL TRAINING.

Industrial Social Education. By BALDWIN. $1.50. Milton, Bradley & Co.

A useful and inspiring work, dealing with experiments at the State Normal School, Hyannis, Mass.

Timber Bulletin No. 10. 10c. Government Printing Office, Washington.

Probably the most complete and most scientific small treatise on timber ever published. Most useful.

Woodworkers' Tools. Strelinger & Co., Detroit, Mich. Gratis.

Really catalogues, but containing a full description of tools, with hints for their correct use. Should be in the hands of all Manual Training teachers.

Handbook for Lumbermen. Disston & Sons, Philadelphia. Gratis.

A scientific treatise on the construction of saws and how to keep them in order.

Principal Species of Woods. By SNOW. $3.50. Wiley & Sons, New York.

A digest of the most recent investigations on timber by the United States authorities. Gives the characteristics of the various timbers, and is superbly illustrated.

Manual Training Woodwork. By PEARSON. 7s. 6d. Philip & Sons, London.

Contains 42 plates of well executed drawings.

Manual Training Made Serviceable to the School. By GOETZE. 3s. Newman & Co., London, England.

A very useful book, showing how manual training can be made to assist the general work of the school.

Woodworking for Beginners. By WHEELER. $2.50. Putnams' Sons.

Full of methods of construction and suggestions for teachers.

Elementary Woodworking. EDWIN W. FOSTER. 75c. Ginn & Co.

Intended to supplement class instruction concerning tools and tool processes, woods and trees.

Elements of Handicraft and Design. By BENSON. Macmillan Co.

Useful and suggestive. Proportion of parts effectively treated.

Metal Work. By LELAND. 5s. Whittaker & Co., London.

Deals with metal work in simple materials and small equipment.

Course of Study. Public School Board, Chicago. $1.00.

A wealth of suggestions and information.

DOMESTIC SCIENCE.

Food and Dietetics. By ROBERT HUTCHINSON. $3.00. W. Wood & Co., New York.

The Woman Who Spends. By B. J. RICHARDSON. $1.50. Whitcomb & Barrows, Boston.

Domestic Economy in Theory and Practice of Cooking. By BIDDED and BRADLEY. $1.10. Whitcomb & Barrows.

First Aid in Accidents. CHARLES DICKSON. 50c. Fleming Revell Co.

NOTES.--(1) The following in the list of 1902 may be omitted: **Boston School Kitchen Text Book** (Lincoln), **Practical Dietetics** (Gilman Thompson), **Boston Cook Book** (Lincoln).

(2) The attention of teachers is drawn to the following series by DR. MARY WOOD ALLEN. They deal with questions that, if taken up in any way, need extremely careful handling:

The Man Wonderful, Teaching Truth, Almost a Man, Almost a Woman, What a Young Girl Ought to Know, what a Young Woman Ought to Know. The Wood-Allen Publishing Co., Boston. William Briggs, Canadian Agent.

The first-named book is a simple treatise on human Physiology: the rest aim at the cultivation of personal purity.

ART.

NOTE.—*See pp. 66, 67, Catalogue of 1902.*

Light and Shade. By CROSS. Ginn & Co.

Deals with first principles of light and shade, mediums, technique, values, aims, methods, charcoal, pencil and brush. Well illustrated.

New Drawing Course. By VAUGHAN. Nelson & Son.

A comprehensive work relating to drawing, design, color work, and the related manual occupations. Essentially a teacher's book, full of hints and suggestions.

Clay Modelling. By HOLLAND. Ginn & Co., Boston.

Manual of Clay Modelling. By UNWIN. Longmans, Green & Co.

These two manuals are satisfactory as far as they go, but there does not seem to be a work published that entirely meets the requirements. The magazines mentioned below frequently contain much helpful matter.

Elementary Brushwork Studies. By YEATS. Philip & Son.

Contains an introductory chapter, and 24 examples from Nature, with instructions as to colour, arrangement, execution, etc,

Brushwork Studies. By YEATS. Philip & Son.

A more advanced work than the foregoing dealing with flowers, fruit, and animals.

Brush Drawing. By NICOL. Blackie & Son.

A handbook for teachers and students. Much attention is paid to design. Contains 64 plates, with suggestions for the execution of each.

Colour Study. By CROSS. Ginn & Co.

Clear and reliable.

Design and Making of Patterns. By HATTON. Chapman & Hall, London, England.

A full and clear exposition of the principles of design, based on geometric and natural forms and its application to material. Well illustrated.

Principles of Design. By BATCHELDER. Inland Printer Co., Chicago.

A development of the ideas of Dr. Denman W. Ross, of Harvard. The elementary principles of design are defined, and a series of exercises given leading to the more complex. The development of the subject is traced step by step. All terms are explained and illustrated. Plates clear and distinct.

The Bases of Design. By WALTER CRANE. Bell & Son.

An eminently readable book. Deals with architectural bases, influence of material, method, and condition, climatic influence in regard to colour and pattern, racial influence, symbolic influence, graphic influence or naturalism, individual influence, collective influence. Beautifully illustrated. Hardly a text book, but is one that every student should read.

Line and Form. By WALTER CRANE. Bell & Son.

A thoroughly reliable text book. Splendidly illustrated. The writer is recognized as an authority the world over. These two books are probably the best books on design yet published.

Science and Art Drawing. By SPANTON. Macmillan Co.

Complete Perspective Course. By SPANTON. Macmillan Co.

Geometrical Drawing and Design. By SPANTON. Macmillan Co.

These three books form a comprehensive and scientific course of mechanical drawing in all its branches.

Compendium of Drawing. Armour Institute of Technology, Chicago.

A thoroughly useful and comprehensive work, in two volumes.

Blackboard Drawing. By SEABY. Nelson & Son.

A practical and useful work, showing how to use the chalk correctly and effectively. Deals with object drawing, outlines of ornament, natural forms, the brush, charcoal, memory drawing, illustration of narrative, light and shade, etc. Well illustrated in black and white.

Blackboard Drawing. By WHITNEY. Davis Press, Worcester, Mass.

Illustrations amongst the finest published. Instructions how to use the chalk and secure different effects. No better guide can be followed.

Text Books of Art Instruction. Books I. and II. 25c. each; Book III. 30c.; Books IV. V. VI. 45c. each; Book VII., VIII. 55c. each. Prang Educational Co.

The series will consist of eight books, of which five are already published. The whole design and execution are admirable. The sections on colour are particularly well done. The last four of the series should prove of great service in the high school.

Drawing Course. By AUGSBURG. Education Publishing Co.

In three parts. Very usefnl Full of hints and suggestions. Deals with memory drawing, action drawing, ambidextrous drawing, natural objects, colour, type forms, brush, pen, charcoal, design and construction drawing.

Illustrations and Notes to Accompany Circular on Primary Drawing. Board of Education, Whitehall, London, England.

A useful pamphlet of illustrated suggestions relating to practice with firm and flexible points—the pencil, pen and brush, lettering, mechanical drawing, proportion, perspective, analysis and comparison.

Notes for Mechanical Drawing. By MATHEWSON. $1.25. Taylor-Holden Co., Springfield, Mass.

A collection of notes, exercises and problems in projections and working drawings.

Architectural Drawing. By EDMINSTER, The Pratt Institute, Brooklyn, N.Y.

Deals with geometric problems, simple projection, intersection of solids, development of surfaces, projection of shadows, orders of architecture, study of a frame house, and studies in masonry construction. Ninety-six full page plates, with a hundred pages of text.

Lettering. By STEELEY. Bacon & Co., London.

Contains forty-two complete alphabets, with sets of numerals, initials, monograms, etc., together with instructions and hints.

The School Arts Book, (late "The Applied Arts Book"). $1.00 a year. The Davis Press, Worcester, Mass.

An illustrated magazine, devoted to School Drawing and the allied arts.

The Craftsman. $3.00 a year. United Crafts, Syracuse, N. Y.

The Studio. $3.50 a year. J. LANE, 67 Fifth Ave., New York City.

Outlines of the History of Art. By DR. WILLIAM LUEBKE. 2 vols. Dodd, Mead & Co.

The same publishers have issued a short **History of Art,** by JULIA B. DE FOREST, which contains the essentials of the subject, and is fully illustrated.

History of Art. By W. H. GOODYEAR. $2.80. A. S. Barnes & Co.

A well illustrated and useful volume. Deals with Architecture, Sculpture, Painting and Music.

An Elementary History of Art. By U. D. ANVERS. $3.75. Scribner's Sons.

A very satisfactory book. Well illustrated.

History of Painting. By JOHN C. VAN DYKE. Longmans, Green & Co.

In addition to the Riverside Art Series (p. 57 of the Catalogue of 1902), the following comparatively cheap works will do much to stimulate the taste of all the pupils, as well as to prove suggestive to those who take the art courses :

Newnes' Art Library. 3s. 6d. each. George Newnes.

A series of volumes illustrative of the work of the great artists. The following have already been published :—

Botticelli, Sir Joshua Reynolds Velasquez, Constable's Sketches, Benozzo Gozzoli, Raphael, Van Dyck, Titian, Paul Veronese.

Each volume contains about 64 full-page illustrations in monochrome, and a frontispiece in photogravure. The text is mainly biographical and descriptive, and includes a list of the principal works of the artist under consideration. The volumes are bound in quarter vellum, with artistic paper sides, and are well worth a place in the art department of the school library.

Art Hand-Books. A new series of illustrated text-books of art education, edited by E. J. Poynter, C.A. **Painting:** I., Classics and Italian, by E. J. POYNTER and P. R. HEAD ; II., German, Flemish, and Dutch, by H. W. BUXTON ; III., English and American, by H. W. BUXTON ; IV., French and Spanish, by G. SMITH. **Architecture:** V., Classics and Early Christian, by T. R. SMITH ; VI., Gothic and Renaissance, by T. R. SMITH. **Sculpture:** VII., Antique, Egyptian, and Greek , by G. REDFORD; VIII., Renaissance and Modern, by L. SCOTT. IX. **Water Color Painting in England,** by G. R. REDGRAVE.

Each volume contains numerous illustrations, and is strongly bound for the use of students. $2.00 per volume. Scribner's Sons; Sampson, Sons, Marston & Co.

The following works will be found of assistance to teachers in the study of pictures and other works of art. *See p. 57, Catalogue of 1902* :—

Meaning of Pictures. By VAN DYCK. $1.25. Scribner's Sons.

How to Interpret Pictures. By FRANKLIN B. SAWVEL. $1. The Round Table Booklet Publishers, Greenville, Pa.

How to Enjoy Pictures. By SAWVEL. $1.50. Prang Educational Co.

The Appreciation of Sculpture. By RUSSELL STURGIS, A.M.Ph.D., Fellow of the American Institute of Architects, etc. $1.50. The Baker & Taylor Co.

PEDAGOGY.

NOTE.—*See pp. 60-62, Catalogue of 1902.*

GENERAL EDUCATION.

The Meaning of Education. By Prof. N. M. BUTLER, of Columbia University. $1. Macmillan Co. Morang & Co.

A philosophic discussion of some of the concrete problems of education, including the meaning of education, what knowledge is most worth, the relation of education to democracy, the function of the secondary school, and reforms in secondary education.

Educational Aims and Educational Values. By Prof. PAUL H. HANUS, of Harvard University. $1.00. Macmillan Co. Morang & Co.

A discussion of contemporary educational problems. An attempt to formulate the aims of elementary and secondary education, and to describe the scope and methods of an education that meets the demands of modern life, both in its provisions for the development of the individual, and in its training for social service.

Social Phases of Education in the School and the Home. By S. T. DUTTON, Superintendent of Schools, Brookline, Mass. $1.25. Macmillan Co. Morang & Co.

Discusses the problem of education not as belonging exclusively to the school, but as one of public interest. Its point of view is social rather than scholastic. Deals with the social aspects of the home and the school, the relation of the school to the child, phases of the course of study, the relation of education to vocation, the relation of the Church to the school, and the correlation of educational forces in the community.

A Modern School. By Prof. PAUL H. HANUS. $1.25. Macmillan Co. Morang & Co.

Endeavors to set forth the scope and aims of a modern school, more particularly of a secondary school, and the conditions essential to its highest efficiency.

An Ideal School, or Looking Forward. By PRESTON W. SEARCH, Superintendent of Schools, West Liberty, Ohio. Appleton & Co. Morang & Co.

Deals in a constructive way with most of the problems relating to the modern public school. The author is a practical idealist, and his method is conservative. "I can think of no single educational volume in the whole wide range of literature in this field which I believe so well calculated to do so much good at the present time, and which I could so heartily advise every teacher in the land, of whatever grade, to read and ponder."—G. Stanley Hall.

Interest and Education. By Prof. CHAS. DE GARMO, of Cornell University. $1.00. Macmillan Co. Morang & Co.

Makes a concrete application of the doctrine of interest to the matter and methods of education.

Adolescence. Its psychology and its relation to physiology, anthropology, sociology, sex, crime, religion, and education. By Dr. G. STANLEY HALL. 2 vols. $7.50 net. D. Appleton & Co. Morang & Co.

This work should be read by everyone who has to do with children from 12 to 16 years of age. It is probably the most comprehensive work on the subject, especially from the experimentary point of view.

Genetic Psychology for Teachers. By Dr. CHARLES HUBBARD JUDD. $1.20. D. Appleton & Co. Morang & Co.

Not a comprehensive or systematic text-book on genetic psychology, but a discussion of those aspects of mental development that are closely involved in primary education, and an application of genetic principles to the work of the teacher, and to the processes and nature of learning reading, writing, and arithmetic. Its simple directness and its helpful suggestions for actual work make it valuable for teachers' use.

Outlines of Psychology. By Prof. JOSIAH ROYCE, of Harvard University. $1.00. Macmillan Co. Morang & Co.

An excellent treatise on psychology, written from a standpoint which is somewhat new. It aims to discuss elementary principles rather than to deal with technical details, and attempts to some extent practical applications of these principles.

Fundamentals of Child Study. By Prof. EDWIN A. KIRKPATRICK, of Fitchburg Normal School. $1.25. Macmillan Co. Morang & Co.

One of the best works to cover in a general way the whole field.

The Principles of Education. By Prof. RAYMOUNT, of University College, South Wales. 4s. 6d. Longmans, Green & Co.

This is an admirable book for high school teachers.

Personal and Ideal Elements in Education. By HENRY CHURCHILL KING. $1.50. Morang & Co.

A reactionary movement against the practical tendencies of the present day.

Thomas Plattei and the Educational Renaissance of the Sixteenth Century. By PAUL MONROE. $1.20 net. Morang & Co.

There is scarcely a phase of the educational life of the sixteenth century that is not illumined by the concrete details, and enlivened by the personal touch found in this little narrative.

Aristotle on Education. Being extracts from the ethics and politics. Edited by John Burnett. 2s. 6d. Cambridge University Press.

A History of Education. By THOMAS DAVIDSON. $1.00. Scribner's Sons.

Treats the development of education as an evolutionary process. One of the very best histories.

Source Book of the History of Education for the Greek and Roman Periods. By PAUL MUNROE. $2.25. Macmillan Co.

Vittorius de Feltre and Other Renaissance Educationists. By W. H. WOODWARD. 6s. Cambridge University Press.

The best book on the early renaissance period.

Desiderius Erasmus. Concerning the aim and methods of education. 4s. By W. H. WOODWARD. Cambridge University Press.

The most satisfactory book on Erasmus.

Account of Comenius' Life and Works. By Prof. LAURIE. 3s. 6d. Cambridge University Press.

Life of Pestalozzi. By R. DE GUIMPS. 6s. Sonnenchein & Co.

The great thing with Pestalozzi is to enter into the spirit of his life. This book is worth careful study.

Arnold of Rugby. By Prof. FINLAY. 6s. Cambridge University Press.

Lectures on Education in the Nineteenth Century. By R. D. ROBERTS. 4s. Cambridge University Press.

The Making of Citizens. A study in comparative education. By G. E. HUGHES. The Walter Scott Publishing Co.

An attempt to present in a systematic form the salient points of the educational systems of Europe and America.

The Place of Industries in Elementary Education. By K. E. DOPP. $1.00. University of Chicago Press.

An appeal for the recognition of the physical and psychical characteristics of the child, with its instincts and tendencies interpreted through the experience of the race.

More Money for the Public Schools. By C. W. ELIOT, Pres. of Harvard. $1.10, Doubleday, Page & Co.

METHODOLOGY.

General Method. By Dr. C. A. MCMURRY, Normal School, De Kalb. Ill. 90c. Public School Pub. Co., Bloomington, Ill.

The Method of the Recitation. By Dr. C. A. MCMURRY and Prof. FRANK M. MCMURRY, Teachers' College, Columbia University. 90c. Macmillan Co. Morang & Co.

The two preceding works are a discussion of the general principles of method, and of their application to studies in general.

The American Teachers' Series. 4s. 6d. each. Longmans, Green & Co.

This is an admirable series. Every high school teacher should possess it. The following have so far been issued :—

The Teaching of Chemistry and Physics in the Secondary School. By SMITH and HALL.

The Teaching of History and Civics in the Elementary and the Secondary School. By H. E. BOURNE.

The Teaching of Mathematics in the High Schools of Prussia. By YOUNG.

The Teaching of Latin and Greek in the Secondary School. By BENNETT and BRISTOL.

The Teaching of Biology in the Secondary School. By LLOYD and BIGELOW.

The Teaching of English in the Elementary and Secondary School. By CARPENTER, BAKER, and SCOTT.

Manual Training. By C. R. RICHARDS, Teachers' College, Columbia University (to be issued shortly).

Some Notes on Methods in English Composition. By Inspector SEATH. Free on application to the Education Department, Toronto.

The Teaching of Modern Foreign Languages in Our Secondary Schools. By K. BREUL. 2s. Cambridge University Press.

Contains also a valuable chapter, entitled "The Reference Lib ary of a School Teacher of German," in which the author discusses some of the more recent works of this class.

REPORTS ON ENGLISH AND GERMAN SCHOOLS.

Elementary Schools of Great Britain. By JAMES C. GREENOUGH. $1.20 net. Morang & Co.

Written from the standpoint of an American director of schools.

Education in the United States. A series of monographs prepared for the Paris Exhibition. Edited by Prof. N. M. Butler. 2 vols. $3.50. J. B. Lyon & Co., Albany, N.Y.

Reports of the Mosely Educational Commission of the United States of America, Oct.-Dec., 1903. Published for the proprietor of the Co-operative Printing Society, Limited, Tudor Street, New Bridge Street, London, Eng., E.C.

The report of the English Commissioners in the various phases of education in the United States and, less extensively, in Canada. A very valuable report.

Notes on German Schools, with special relation to curriculum and methods of teaching. By Inspector WINCH (England). 6s. Longman, Green & Co.

A first rate book for comparative study.

PERIODICALS.

On pp. 62 and 63 of the Catalogue of 1902 will be found a list of the leading American periodicals. Following is a list of the leading English ones :—

The Schoolmaster (weekly). 3, Racquet Court, Fleet Street, London, E.C. 6s. 6d.

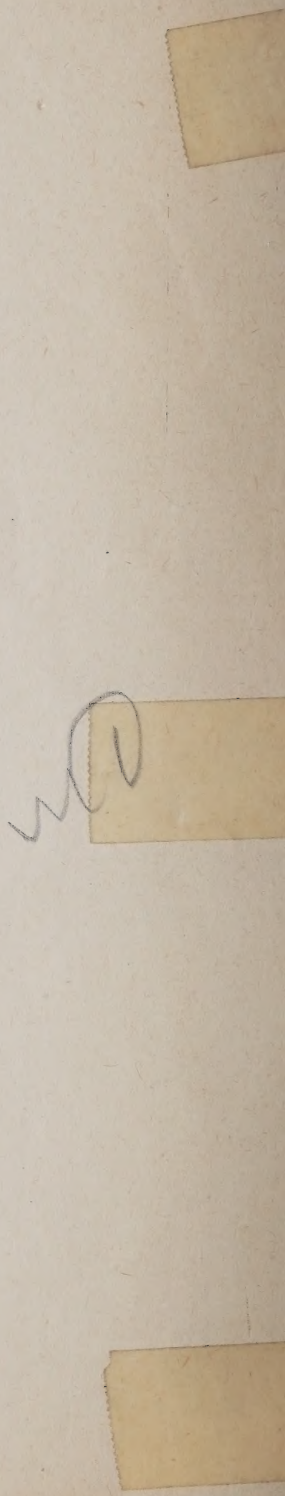
School (monthly). John Murray, Albemarle Street, London, Eng. 8s.

Journal of Education (monthly). William Race, 3, Broadway, Ludgate Hill, London, E.C. 8s.

Educational Times (monthly). Francis Hodgson, 89, Farringdon Street, London, E.C.

CATALOGUES.

NOTE.—*See p. 63, Catalogue of 1902.*

The A.L.A. Catalogue. Part I. or II. separately. Paper, 15c. ; cloth, 25c. Both parts, paper, 25c. ; cloth, 50c. The Superintendent of Documents, Washington, D.C.

A general reference catalogue, prepared by the leading American librarians for the Paris Exposition. A marvel of cheapness and comprehensiveness. Every high school should procure a copy.